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<u>L2</u>	5863461	2	<u>L2</u>
<u>L1</u>	6320065	2	<u>L1</u>

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<i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L11	L10 and enzyme	20	L11
L10	L9 and (glycerol or glycol)	22	L10
L9	4614718 OR 4839287 OR 4959459 OR 5200328	38	L9
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L8	5674830.pn.	1	L8
L7	5200328.pn.	1	L7
L6	4959459.pn.	1	L6
L5	4839287.pn.	1	L5
L4	4614718.pn.	1	L4
L3	5674830.pn.	1	L3
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L1: Entry 1 of 2

File: USPT

Nov 20, 2001

US-PAT-NO: 6320065
DOCUMENT-IDENTIFIER: US 6320065 B1

TITLE: Fatty acid partial esters of polyols

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gruning; Burghard	Essen			DE
Hills; Geoffrey	Essen			DE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Goldschmidt AG	Essen			DE	03

APPL-NO: 09/ 306771 [PALM]
DATE FILED: May 7, 1999

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	198 21 851	May 15, 1998

INT-CL: [07] C07 C 51/00, C07 C 1/04, C11 C 1/00, C11 D 3/38, C12 P 7/62

US-CL-ISSUED: 554/173, 554/170, 554/168, 554/171, 554/172, 554/229, 435/134, 435/135, 435/136, 435/137

US-CL-CURRENT: 554/173, 435/134, 435/135, 435/136, 435/137, 554/168, 554/170, 554/171, 554/172, 554/229

FIELD-OF-SEARCH: 554/173, 554/168, 554/170, 554/229, 554/171, 554/172, 554/277, 510/410, 510/470, 435/280, 435/135, 435/41, 435/134, 435/136, 435/137

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	2759922	August 1956	Gibbons	260/210
<input type="checkbox"/>	5674830	October 1997	Brenkman et al.	510/470

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
38 18 292 A1	December 1989	DE	
44 07 015 C2	September 1995	DE	
0 093 602 A2	November 1983	EP	
0 383 405 A1	August 1990	EP	
0 451 461 B1	October 1991	EP	
90/09451	August 1990	WO	

OTHER PUBLICATIONS

Osipow et al, Micro-Emulsion Process for the Preparation of Sucrose Esters, American Oil Chemists Society, vol. 44, May 1967.*
Rompp's Chemical Encyclopedia, 9th expanded edition (1990), pp. 1812-1913, entry: ELB.

ART-UNIT: 161

PRIMARY-EXAMINER: Carr; Deborah D.

ATTY-AGENT-FIRM: Scully, Scott, Murphy & Presser

ABSTRACT:

The invention relates to a process for the preparation of fatty acid partial esters of polyols, the fatty acid partial esters thus obtainable, and their use.

The fatty acid partial esters (I) of polyols having at least 4 C atoms, at least one primary and at least one secondary alcohol group of the starting polyols are obtained in a process, where in a first process step the polyols are reacted with a fatty acid or a fatty acid derivative to give a fatty acid partial ester (II) and in a second process step the fatty acid partial esters (II) obtained are subjected to a selective enzymatic cleavage of primary ester groups.

35 Claims, 0 Drawing figures